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97-138-UNIFORM DWELLING CORE

RULE REPORT

Department of Commerce

Rule N	o.: <u>Ch</u>	apters ILHR 20-25
Relatin	ig to: <u>U</u>	niform Dwelling Code
	Agency	contact person for substantive questions:
	Name _	Leroy Stublaski
	Title	Uniform Dwelling Code Coordinator
	Telepho	ne Number (608)267-5113
	Agency	contact person for internal processing:
	Name _	Duane Hubeler
	Title	Code Consultant
	Telepho	ne Number (608)266-1390
1.	-	statutory authority under which the agency intends to promulgate the rule(s). 1), 101.63 (1), 101.64 (3), 101.72 and 101.74
2.		of federal regulations which require adoption or which are relevant to the proposed rule(s).
3.	Citation of	of court decisions which are applicable to the proposed rule(s).

4. Description of the proposed rule(s).

The proposed rules consist of various changes to chapters ILHR 20 to 23 relating to the Uniform Dwelling Code. Many of the changes are made for general clarification, to incorporate code interpretations, and to update adopted standards. There are some new, substantive changes proposed that were discussed with the UDC Council in accordance with the scoping statement.

The major change consists of a complete repeal and recreation of chapter ILHR 22 relating to energy efficiency. Other changes relate to mechanical attachment of roof trusses and rafters, fire separation between adjacent zero-lot-line dwellings, additional requirements for safety glazing in bathrooms and stairways, and less stringent requirements for drain tile and sump pumps.

5. Reason for the proposed rule(s).

Section 101.63 (5), Stats., requires the department to review the rules contained in the Uniform Dwelling Code on a biennial basis.

						,	1997 Session
FISCAL ESTIMATE DOA-2048 (R10/94)	***************************************	GINAL RECTED		UPDATE SUPPLE	D MENTAL	Chapters I	ll No./Adm. Rule No. ILHR 20-25 int No. if Applicable
Subject	······································						
Miscellaneous change	s to Unife	orm Dwelling (Code	e, includi	ng a complete	rewrite o	f chapter ILHR 22.
Fiscal Effect		, , , , , , , , , , , , , , , , , , , ,			***************************************		
State: No State Fiscal E Check columns below only if bi		rect appropriation			Incress C	nata Manchal	Possible to Absorb
or affects a sum sufficier	nt appropriation	on			Within Age	ency's Budget	Yes No
Increase Existing Appropriate New Appropriate	ppropriation	Increase Ex Decrease E		Revenues g Revenues	Decrease C	osts	
Local: X No local government	ment costs						
1. Increase Costs		3. Increase Rever	nues		5. Types of Loca	l Government	al Units Affected:
Permissive Manda	atory	Permissiv	e 🗌	Mandatory	☐ Towns	☐ Village	
2. Decrease Costs		4. Decrease Reve				s Others	******
Permissive Manda	story	Permissiv		Mandatory			
Fund Sources Affected	iwiy		/e L	- 1	. 20 Appropriations	Districts	WTCS Districts
□GPR □FED □PR			-S		olicable		
Assumptions Used in Arri	ving at Fis	scal Estimate					
The Uniform Dwelling contained in these proposition administrative rule change and the change of the	sed chang	ges. Although	ther	e is a tim	e lag or learni	ng curve	nvolved in any
Long-Range Fiscal Implication	ons	***************************************	····		***************************************		
None known or anticipa	ated						
Agency/Prepared by: (Name	& Phone	No.) Ant	horiz	ed Signatur	re/Telephone No		Doto
Commerce, Safety & Bu				7/177	/ Leaphone No	, cer	Date 5-26-85
Duane Hubeler (608)266	_		12 1	413	1// (-	8716	5-26-40

***************************************				. 199	7 Session	
FISCAL ESTIMATE WORKSHEET Detailed Estimate of Annual Fiscal Effect DOA-2047(R10/94)	ORIGINAL CORRECTED	UPDATED SUPPLEMENTAL	3	No./Adm. Rule N ILHR 20-25	No. Amend	ment No.
Subject Miscellaneous changes to Uniferm	orm Dwelling Co	de, including a com	plete rewrit	e of chapter	ILHR 22.	
I. One-time Costs or Revenue Impacts f None	or State and/or Local	Government (do not incl	ude in annuali	zed fiscal effect):	
II. Annualized Costs:			Annual	zed Fiscal impa	ect on State fu	nds from:
A. State Costs By Category State Operations - Salaries and Fring	ges		Incr \$	eased Costs	Decreas \$	ed Costs
(FTE Position Changes)			(0	FTE)	(- 0	FTE)
State Operations - Other Costs					•	
Local Assistance					-	
Aids to Individuals or Organizations	3				•	
TOTAL State Costs By Catego	ory		\$ 0		\$ -0	
B. State Costs By Source of Funds GPR			\$ Incr	eased Costs	Decreas \$ -	ed Costs
FED					-	
PRO/PRS			0		-0	
SEG/SEG-S					-	
III. State Revenues- Complete this only was state revenues (e.g., GPR Taxes	when proposal will incr tax increase, decrease		Incr \$	eased Rev.	Decreas	ed Rev.
GPR Earned				***************************************	-	
FED					-	
PRO/PRS					**	
SEG/SEG-S					-	
TOTAL State Revenues			\$ 0		\$ -0	

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NET CHANCE IN COORS	• 0	STATE		0	LOCAL	
NET CHANGE IN COSTS	\$ <u>0</u>			s 0		
NET CHANGE IN REVENUES	\$ <u>0</u>			\$0		
Agency/Prepared by: (Name & Phone No.)	- Fv A	and Control	**************************************	I_		
"" (Name & Phone No.)	Autho	rized Signature/Telephone	NO.	Date		

Commerce, Safety & Buildings Division Duane Hubeler (608)266-1390

DEPARTMENT OF COMMERCE PUBLIC HEARING ATTENDANCE RECORD

RULE NO.: Chapters ILHR 20-25	DATE: Fride	Friday, December 12, 1997			
RELATING TO: Uniform Dwelling Code		11:00	in	in n	for on
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Name	Representation (Business, Assoc., Group, Self, etc.)	City and State	Appe St	Appe Opp	Appe Info
Rick Bowers	ABC Truss	Chetek wx			×
Randy Tayfar	Abe Truss	Chetek, Mish			×
Thomas Dorvich	Derrich Const Co. Inc.	シストカ			ايد
AL BUSIER	BUSHER CONSTRUCTION INC	Con VALLEY WI			*
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bell Olser		Eau Claire Wi-			<
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Pill GAMISCHE	Pelle WINDOWS	EAU-CLAPE WISC			X
COM-1082 /N 02/07)			_		

DEPARTMENT OF COMMERCE PUBLIC HEARING ATTENDANCE RECORD

RULE NO.: Chapters ILHR 20-25	DATE: Mon	Monday, December 15, 1997			
RELATING TO: Uniform Dwelling Code	TIME: 10:30)			
LOCATION:		Waukesha	ng in ort	ig in ion	ng fo ition
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Name	Representation (Business, Assoc., Group, Self, etc.)	City and State	App Si	Appe Opp	Appe Info
GREG MILKWSKI	AUER STEFE + 1245 BURDLY	Pull.			7
SLAVA SADOZKNIKO	AUTE STEEL & LOTE SUPPLY	Mien.			\times
DAN LIPINSKI	BUILDERS AND CONSUMERZS	WANTESHIA WI	7	7	
Brad Crary	Independent Inspections (Blay Insp)	Waukesha			
Bob Blanksuken	Indrosadon Tuso	WAUKSSAA			
COHNICLT Z	BABB INC.	OKRUCHCES			
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Fatt Moroner	Metropolitan Buscon April	Million Das WIT			
Jelon Millar	BIRINSKI Bros. Burcours	WALKESHA, WI.			
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Dale Silinson	Olympic Beilding Companys Inc	Jackson Wi			
Spate Blocken	KAKTEK BUILDERY INC.	MICHINAUX SE VIII			প্
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Don Hinshe	Backer Wisconsin Hocky	Oak auch			メ
CHARLES NADORN	SELF	ELEHORA, WI	ষ	<i>ک</i>	入
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DEPARTMENT OF COMMERCE PUBLIC HEARING ATTENDANCE RECORD

RULE NO.: Chapters ILHR 20-25		Wednesday, December 17, 1997		**************************************	
LOCATION:	CITY: Green Bay	n Bay	earing in opport	aring in osition	aring for mation
Name	Representation (Business, Assoc., Group, Self, etc.)	City and State	Appe Su	Appe Opp	Appe Info
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Thomas Collins	City of Appleton	Appleton Wis			\times
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Who the same	7	Green Bay			
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COM-10532 (N.03/97)					

DEPARTMENT OF COMMERCE PUBLIC HEARING ATTENDANCE RECORD

RULE NO.: Chapters ILHR 20-25 RELATING TO: Uniform Dwelling Code	DATE: Thurs	DATE: Thursday, December 18, 1997		
LOCATION:	CITY: Steve	Stevens Point	earing in	aring in
Name	Representation (Business, Assoc., Group, Self, etc.)	City and State	Appe St	
GARY KORPELA	ALTOMATED PRODUCTS THE (WIMA)	MARSHAIDO, WE		¥.
Manshall Lec	McDARIS CONTRACTOR DO	Places, Wi		
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COM-10532 (N.03/97)				ł

DEPARTMENT OF COMMERCE PUBLIC HEARING ATTENDANCE RECORD

RULE NO.: Chapters ILHR 20-25	DATE: Frida	Friday, December 19, 1997			
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LOCATION:	сіту:	ison	ng ir ort	ig in ion	ig fo
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Name	Representation (Business, Assoc., Group, Self, etc.)	City and State	App S	Appe Opt	Appe Info
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Josef Mars	Frans Low	Sus Prairie			
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COM-10532 (N.03/97)					

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: Eau Claire

Hearing Date: 12/12/97

Commenting	gni		Presenter,		
Ĭn	For	Exh.	Group Represented,	Comments/Recommendations	Agency Reconce
Sup. Opp.	Info.	No.	City, State		Ogency response
			Curt Hehl C. D. Hehl Construction Fall Creek, WI	New drain tile requirements are much too strict and will require a complete system where a partial system or no system would be adequate.	Agree. Provision will be amended.
-			Dean Larson Chippewa Valley HBA Menomonie, WI	Safety glazing in bathrooms within 4 feet of the floor and 3 feet of the outside of the tub or shower enclosure per proposed s. 21.05 (5) (c) is too restrictive.	Agree. This provision will be deleted.
		***************************************	Mike Marthaler Mike's Custom Homes Eau Claire, WI	Proposed bedroom definition in s. 20.07 (8f) is much too broad. It would cover many rooms that are never used as bedrooms. This could effect septic system sizing as well as egress and light and ventilation requirements.	Agree. This provision will be removed. The essential issue of exiting will be addressed in the next code change cycle.
			Thomas Derrich St. Croix HBA New Richmond, WI	1. Requiring the taping of drywall in the garage is costly and is very difficult in cold weather.	1. Agree. This provision will be amended to include tightly fitted joints with limitations on gap size and added joint backing requirements
				of the outside of the tub or shower enclosure per proposed s. 21.05 (5) (c) is too restrictive.	2. Agree. This provision will be deleted.
				3. Proposed bedroom definition in s. 20.07 (8f) is much too broad. It would cover many rooms that are never used as bedrooms. This could effect septic system sizing as well as egress and light and ventilation requirements.	3. Agree. This provision will be removed. The essential issue of exiting from basements will be addressed in the next code change cycle.
-			John Lautz La Crosse HBA West Salem, WI	1. Proposed bedroom definition in s. 20.07 (8f) is much too broad. It would cover many rooms that are never used as bedrooms. This could effect septic system sizing as well as egress and light and ventilation requirements.	1. Agree. This provision will be removed. The essential issue of exiting from basements will be addressed in the next code change cycle.
				2. The drain tile requirements work well as they are. In some cases gravity drainage can work without a pit. In other cases a partial system can work. A partial system should be allowed.	2. Agree. Provision will be amended.

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: Eau Claire

Hearing Date: 12/12/97

			In For Exh. Sup. Opp. Info. No.	Commenting
		Cecil Segelken Eau Claire Bldg. Insp. Eau Claire, WI	Group Represented, City, State	Presenter,
3. Opposes the need to put in a complete drain tile system where no system is required. A partial system should be allowed.	2. Agrees with the need for safety glazing in stairways under proposed ss. 21.05 (5) (d) and (e), but disagrees with the need for safety glazing within 3 feet of a tub or shower enclosure in s. 21.05 (c).	1. Supports removing the exception to egress window dimensions 1. Agree. for casement windows in s. 21.03 (6m) (b) 3.	Comments/Recommendations	
3. Agree. This provision will be amended to allow partial systems.	2. Agree. The provision requiring safety glazing near the tub or shower enclosure will be removed.	1. Agree.	Agency Response	

Rule Number: Chapters ILHR 20-25

Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing
Location:
Waukesha

Hearing Date: 12/15/97

project. 2. HVAC contractors license required now. Cont.	2. Wants to see HVAC contractors licensed like other professions and have continuing education requirements.	ratedinoit, M.I.		
1. Currently MEC does not require. This HVAC issue will be the subject of a future code change	1. Suggests requiring air-to-air heat exchangers	Don Hinske Badger Wisconsin Heating		
available from fire door/window suppliers. Need for fire windows reduced due to change in 1.	2. Has questions on availability of 20 minute rated windows.			
Agree. Provision will be amended. Rated glass and separate frame assemblies are	1. Requests changing the fire separation distance in Table 21.08 for property lines to 3 feet rather than the proposed 5 feet because many older cities have very narrow lots.	Ted Atkinson West Allis Bldg, Insp. West Allis, WI		
 The Department only has resources to develop one code, the minimum standard. Others may issue voluntary standards. No statutory authority currently exists. A, 8, 10, 11, 12, 13, 14. HVAC issues will be the subject of a future code change project. These issues will be considered by the Council under that project. More specific information will be needed from the commenter. 6, 7. Suggestions go beyond what the Model Energy Code requires. Further information including costs and benefits will be needed for review. 	Makes several new suggestions, including: (1) having a split code, one more strict than the other, and allowing builders to build to either one as long as the consumer is aware of which one they are getting; (2) having true builders certification with continuing education requirements; (3) requiring infiltration testing to keep carbon monoxide out of the living area; (4) limiting the penetrations in removable sump crock covers; (5) requiring loose fill or batt insulation to be protected from wind washing; (6) requiring that fenestration products be installed exactly as they were tested; (7) stating the infiltration rate of a house and verifying it with a blower door test; (8) requiring mechanical ventilation to be operated continuously; (9) requiring that humidity be controlled in a dwelling; (10) prohibiting exterior walls from being used as plenums; (11) requiring ducts to be commissioned and tested prior to being put in service; (12) requiring all naturally aspirated appliances to have their own, separate combustion air supply; and (14) requiring kitchen stoves to have a draft hood that vents to the outside.	Dan Lipinski Performance Design Building LLC Waukesha, WI	h-mi	
Agency Response	Comments/Recommendations	Group Represented, City, State	For Exh.	In J Sup. Opp. In
Withing the second of the seco		Presenter,		Commenting

	
Relating To: Uniform Dwelling Code	Rule Number: Chapters ILHR 20-25

DIVISION OF SAFETY AND BUILDINGS

Hearing Location:	
Waukesha	

Hearing Date: 12/15/97

							Al Eckhart Metropolitan Builders Ass. Pewaukee, WI	No.	
	6. Changes to chapter 22 need to consider costs and benefits. We may be making dwelling occupants sick in the quest to save energy.	5. In Table 21.25-A, the maximum height should not be the same for 2X4 and 2X6 walls.	also allow partial systems in municipalities without specific ordinances.	determine the door rating without the label. 4. In s. 21.17, clarify if surface channels can "run to daylight" and	3. Requiring a label on the door between dwelling and garage in s.	2. Safety glazing in bathrooms within 4 feet of the floor and 3 feet of the outside of the tub or shower enclosure per proposed s. 21.05 (5) (c) is too restrictive.	1. Mechanical fastening of roof trusses is unnecessary in our Ass. location. It will only add cost.		,
the development of the proposal. Except to upgrade door and window requirements to national standards, no changes were made to decrease infiltration in the thermal envelope. The proposal still relies on occupant control of ventilation. Any specific case of adverse health effects shown to be caused by Ch. 22 requirements will be responded to.	A note will be added to permit increases in the unsupported height where justified by analysis. 6. The Council did use a cost/benefit analysis in	5. This was modified to be consistent with most current standards of the Uniform Building Code.	4. Agree. The provision will be clarified so that these are allowed.	3. Agree that the label will add some minimal cost but the department knows of no other way to determine the rating of the door/frame assembly.	2. Agree. This provision will be deleted.	positive alternative. This change will bring us in line with the national CABO standard.	1. Agree that there will some additional cost but there are some applications were toe nailing is not	Agency Response	

Rule Number: Chapters ILHR 20-25	apters ILHR 20-25
Relating To: Uniform Dwelling Code	orm Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location:
Waukesha

Hearing Date: 12/15/97

				In Sup. Opp. I	Commenting
				For Exh. Info. No.	
			Charlie Madden Elkhorn, WI	L Grou	Presenter,
4. Objects to adding "demarkations" to the code as in s. 22.03 (2).	3. Make sure that energy worksheet calculations done on a computer match the same calculations done by hand.	2. Sump and drainage systems should not be required where they are not needed because of natural conditions.	1. Changes in safety glazing requirements are unnecessary.	Comments/Recommendations	
4. Identification marks are beneficial in reducing the amount of time necessary to determine if the correct amount of insulation has been installed. As an alternative, certification from the installer may be provided. This will be clarified in the draft.	3. Agree. It should be noted that the proposal does allow the option of using simplified calculation methods to reduce the amount of hand calculations.	2. Agree. Provision will be amended.	1. Agree in part. S. 21.05 (5) (c) will be deleted.	Agency Response	

Rule Number: Chapters ILHR 20-25

Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing	
Tearing Location: (
Green Bay	***************************************

Hearing Date: 12/17/97

Appleton Building Insp. Appleton, WI		Tom Collins 1 Appleton Building Insp. I Appleton, WI				Mike Lotto Brown County HBA Greenleaf, WI	Sup. Opp. Info. No. City, State	Commenting Presenter,
Proposed Safety glazing requirements are very confusing.	2. Proposed s. 22.32 dealing with recessed lighting fixtures may present inconsistencies with the electrical code. Also, some airtight cans are not gasketed per the MEC requirements and there may be no fixtures that are labeled as meeting ASTM E283.	1. The broad bedroom definition in s. 20.07 may also present problems related to smoke detector location because a detector is required adjacent to each sleeping area.	4. Areas with sandy soils often put in a partial drain tile systems as long term insurance. They should not require a complete system.	3. Taping and sealing the gypsum board in attached garages is difficult to do in the winter and a taping job that isn't painted over will look uncompleted.	2. Safety glazing changes make sense in the wall around a tub but are otherwise unnecessary.	1. Proposed bedroom definition in s. 20.07 (8f) is much too broad. It would cover many rooms that are never used as bedrooms. This could effect septic system sizing as well as egress and light and ventilation requirements.	Comments/Recommendations	
The proposed requirements on safety glazing outside of tubs or showers will be deleted. Other sections will be reviewed for clarity.	2. Conflicts with the Electrical code will be eliminated. Application issues will be addressed in the commentary or training. Reduction of air movement through these fixtures is important to reduce moisture migration into attic spaces.	1. Agree. This definition will be deleted.	4. Agree. This provision will be amended to clarify that partial systems are allowed.	3. Agree. This provision will be amended to include tightly fitted joints with limitations on gap size and added joint backing requirements.	2. Agree in part. S. 21.05 (5) (c) will be deleted.	1. Agree. This provision will be removed.	Agency Response	

Rule Number: Chapters ILHR 20-25

Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: Stevens Point

Hearing Date: 12/18/97

 Sup. Opp. Info. No.	In For Exh.	Commenting
City, State	Group Represented,	Presenter,
	Comments/Recommendations	
Action County	Agency Reconce	

NO ONE TESTIFIED AT THIS HEARING.

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: Madison

Hearing Date: 12/19/97

	Lynn Wallace 1. Genera Madison, WI	3. Oppos efficience reason no		Dave Osborne 1. General Conserv Products	Ross DePaola WI Environmental Decade driver fo Madison, WI home tig tightness	Herman Kraus May wan Kraus Homes thermal I Sun Prairie, WI	Kirk Dalton Proposed Epic Building Systems framed d Sun Prairie, WI showing walls. S	In For Exh. Group Represented, Sup. Opp. Info. No. City, State	Commening Presenter,
-	1. Generally in favor of code changes.	3. Opposes allowing a lower amount of insulation when a high efficiency furnace is installed. With new construction, there is no reason not to build a proper thermal envelope.	2. Suggests upgrading the requirements for the fresh air intake. If they are just holes in the wall with a flapper, they get frosted up and don't work. A higher efficiency furnace that doesn't draw any	1. Generally supports code changes, particularly chapter 22.	Supports the proposed changes to chapter 22. Good codes are a driver for new technologies. The proposed code requires very little change in construction practices. The rules do not make the home tighter. It is important to not confuse energy efficiency with tightness. The code will meet the intent of the Energy Policy Act.	May want to address specific wall types and location of required thermal breaks in steel framed dwellings.	Proposed insulation value reduction of 0.43 in s 22.23 for steel-framed dwellings is excessive. Has supporting data from utilities showing that R-30.5 steel-framed walls outperform R-19 wood walls. Suggests a reduction factor of approximately 0.20.	Comments/Recommendations	
	1. Agree.	3. The code cannot specify a furnace efficiency requirement higher than the federal minimum. The trade off is allowed by the national model code and the current UDC. The % allowance will be taken out of Table 22.21 in case the national minimums change.	2. Noted. This HVAC issue will be the subject of a future code change project.	1. Agree.	The proposal does include the upgrade of door and window leakage limits to national standards. Sealing requirements for all other openings in the thermal envelope remain the same.	When specific information is received, it will be considered for inclusion in the code or commentary.	The factors generated by the commenter apply to an entire proprietary building system. The factors in the proposal apply only to opaque portions of assemblies so the two are not comparable. Subchapter VII allows for the department approval of factors developed for proprietary systems.	Agency Response	

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: Madison	Hearing	
Madison	Location:	
	Madison	

Hearing Date: 12/19/97

						Lynn Wallace (cont.)	In For Exh. Group Represented. Sup. Opp. Info. No. City, State	Commenting Presenter,
						(cont.)	oresented, State	nter,
8. 22.06 (6) should use 78 degrees as in the commercial code rather than 85 degrees.	7. Opposes decreasing fire separation wall from 5/8 inch to 1/2 inch for duplexes.	6. Table 21.08 should include overhangs and not measure wall to wall.	5. May want to better define rated walls in s. 21.08.	4. A railing could be allowed in lieu of safety glazing in a stairwell.	3. Safety glazing in bathrooms should allow an exception for a nonslip floor surface.	2. Since we adopt NFPA 54, the Fuel Gas Code, we should also adopt NFPA 58, relating to LP gas and NFPA 31 relating to fuel oil.	Comments/Recommendations	
8. Disagree. The temperature in the definition of a cooled space is used to designate conditioned and semi-conditioned spaces which are required to be inside the thermal envelope, not equipment sizing.	7. Disagree. The revision brings the dwelling unit separation requirement for duplexes in line with garage and ILHR 21.08(5), Table 21.08, separation requirements (the department accepts 1 layer of ½ inch drywall on each side of studs as meeting ¾ hour fire-resistive rating).	6. Agree this would be better, however, it would greatly complicate overall enforcement.	5. Agree. Will add note defining rated wall and acceptable testing laboratories or references.	4. Disagree. Railings are often removed for remodeling.	3. Disagree. Flooring is often changed in bathrooms while windows stay the same. S. 21.05 (5) (c) though will be deleted.	2. LP gas and fuel oil use are regulated by other Commerce codes that do adopt the appropriate standards.	Agency Response	

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: Madison

Hearing Date: 12/19/97

						Sup. Opp. Info. No.	Commenting
					Lynn Wallace (cont.)	Group Represented, City, State	Presenter,
space, not a heated space.	13. In s. 22.22 (5), why is a vapor retarder required around a duct in an unheated area? This should only be required for a cooled	12. In ss. 22.17 and 22.19, it makes no sense to have the hottest part of the heating system insulated to only R-5.	11. In s. 22.16, the equipment capability issue needs clarification.	10. In s. 22.15, if there is a manual switchover, you don't need a deadband.	9. In s. 22.10, it is unclear if the heating and cooling loads are to be calculated using minimums. Opposes maximum 15% overdesign allowance. With high efficiency furnaces, the energy savings are limited.	Comments/Recommendations	
13 Agree Troft will be changed	R6.5 for heating ducts depending on the location in the state.	12. The national standard for duct insulation was modified for simplicity. The MEC would have	11. Agree. Clarification will be provided in the commentary and at training as necessary.	10. Agree.	9. Agree in part. Cooling system sizing will remain unlimited. The heating system size limit will remain, as it is flexible. More data is needed to consider the change.	Agency Response	

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

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Agree. The department will delete this proposal.	Opposes bedroom definition proposal. It would cause many new homes to have drain fields designed for 4-6 bedrooms when only 3 rooms will ever be used for sleeping.	Mary Ann Sibley Florence Co. Zoning Dept. Florence, WI	_			
The Council did use a cost benefit analysis to assist them in setting the standards. However, not all provisions were chosen based on cost, some were based on simplicity and ease of application. State law only requires that the costs and benefits be considered.		Robert Schneider Arrowhead Builders Hartland, WI	9		:	
The department believes the definition is too broad and would cause other problems. The main topic of exiting from a basement will be re-examined.	Supports the bedroom definition proposal. It is needed to clearly define the parameters for exiting, light and ventilation in basement rooms.	Brad Crary Independent Insp., Ltd. Waukesha, WI	S			-
The requirements for sump pits and covers can be found in the plumbing code.	Requests that where a sump pump is not installed, the sump pit be covered and sealed to prevent falls into the pit and to prevent radon and moisture from entering the basement through the sump pit.	Robert Blankenheim Independent Insp., Ltd. Waukesha, WI	4			
Agree.	Requests that we adopt the latest version of American Concrete Institute standard ACI 318 in s. 20.24 and drop the reference to ACI 318.1 which is now incorporated in the ACI 318 standard.	Joseph Messersmith, Jr. Portland Cement Assoc. Rockville, VA	ເມ			
The review of these standards will be the subject of a future code change project.	Requests that we adopt two additional companion standards by reference in s. 20.24: NAIMA Fibrous Glass Duct Liner Standard and NAIMA Guide to Insulated Air Duct Systems as part of the proposed adoption of the NAIMA Fibrous Glass Duct Construction Standard.	Thomas Ponder CertainTeed Corp. Valley Forge, PA	2			
Agency Response	Comments/Recommendations	Group Represented, City, State	Exh.	Info.	Opp.	Sup.
		Presenter,		gni	Commenting	C

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

	12 Wesley Halle Opposes the pro Halle Builders would prohibit to New Richmond, WI Buyers would no	Insulation Contractors Ass. Value on batt or Alexandria, VA Nichael Kwart Supports the process value on batt or Cards for the insulation Contractors Ass.	Thomas Newton CertainTeed Corp. Valley Forge, PA Supports the pro value on batt or cards for the ins	Self		window effectivenes stronger basement w disabled, (f) attic ver passive solar design	2. Supports the 3. Suggests off	Milwaukee, WI no obvious tim environment, p	- -	r resenter,
THE PROPERTY OF THE PROPERTY O	Opposes the proposed language relating to drain tile systems that would prohibit the installation of a partial system drain tile system. Buyers would not willingly pay the cost of a complete system.	Supports the proposed requirement in s. 22.03 for printing the R-value on batt or board insulation and for installing attic rulers and cards for the installation of blown insulation.	Supports the proposed requirement in s. 22.03 for printing the R-value on batt or board insulation and for installing attic rulers and cards for the installation of blown insulation.	Requests that the code require a tar coating on the exterior of basement walls as a means of waterproofing and to promote energy efficiency and to prevent radon seepage.		doubling the thickness of basement insulation, (b) standardizing window effectiveness values, (c) better drain tile systems, (d) stronger basement walls, (e) accessibility requirements for the disabled, (f) attic venting, (g) radon mitigation, and (h) the use of passive solar design.	 Supports the proposal on bathroom safety glazing. Suggests other possible future code changes, including (a) 	1. Supports energy saving techniques in the code even if there is no obvious time-dependent payback because it is good for the environment, provides personal comfort and aids in resale.	Comments/Recommendations	
The state of the s	Agree. The language will be changed so that if a municipality does not require a complete system, a partial system is acceptable.	Agree.	Agree.	A masonry block foundation wall currently requires dampproofing. There are several different materials allowed to achieve this in s. 21.18 (3) (e). The code no longer references bituminous-based coatings due to concerns over their long term stability. Poured concrete walls do not require dampproofing.	3	3. Agree that these are good issues for future changes. Some are included in the current package: standardization of window properties via NFRC certification; and credit for passive solar design under subchapter VII.	2. The current proposal on safety glazing in bathrooms will be amended to require it only in the wall immediately surrounding a tub or shower.	1. A life cycle cost analysis was used to develop the thermal envelope changes.	Agency Response	

Rule Number: Chapters ILHR 20-25

Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A
Written Comments Received as of 1/7/98

			15		14			In For Exh Sup. Opp. Info. No.	Commenting
	Joe Jameson Madison, WI	River Falls, WI	Roger Lund Lund Builders, Inc.	East Troy, WI		Lake Geneva, WI	William Binn Wyntree Construction, Inc.	h. Group Represented, City, State	Presenter,
 Supports the proposed truss fastening requirements. Supports the proposed changes to s. 21.08 (5) regarding fire separation of dwellings. Lot line setbacks are getting smaller and these changes are needed to prevent the spread of fire. Supports the proposed floor joist bridging requirements in s. 21.22 (9). 	 Supports the proposed changes to chapter 22 because they will be similar requirements in other states. Supports the proposed bedroom definition. 	2. Opposes the requirement of a complete drain tile system if the municipality does not require it or if there is no indication of high water levels.	1. Opposes the bedroom definition proposal.	2. Opposes the bathroom safety glazing proposal.	1. Opposes the bedroom definition proposal.	2. Opposes the bathroom safety glazing proposal.	1. Opposes the bedroom definition proposal.	Comments/Recommendations	
 3. Agree. There will be some additional cost but there are some applications were toe nailing is not adequate and mechanical fastening is the only positive alternative. This change will bring us in line with the national CABO standard. 4. Agree. 5. Agree. 	 Agree. The department believes the definition is too broad and would cause other problems 	2. Agree. The provision will be amended to clarify that partial systems are allowed.	1. Agree. The provision will be deleted.	2. Agree in part. The department will delete the proposal for safety glazing that is outside the tub or shower enclosure in a bathroom.	1. Agree. The provision will be deleted.	2. Agree in part. The department will delete the proposal for safety glazing that is outside the tub or shower enclosure in a bathroom.	1. Agree. The provision will be deleted.	Agency Response	

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing	
Location:	
N/A	

4. Agree. The provision will be deleted.	4. Opposes proposed bedroom definition.					ı
3. Disagree. There are some applications were nailing or toe nailing is not adequate and mechanical fastening is the only positive alternative. This change will bring us in line with the national CABO standard.	3. Opposes the proposed language on mechanical truss fasteners.				77d	
2. With furnace and other trade offs, basements may be insulated to current levels, if desired.	···					
1. Agree in part. The department will delete the proposal for safety glazing that is outside the tub or shower enclosure in a bathroom.	1. Opposes safety glazing requirements in bathrooms.	Paul Mraz, Jr. Germantown, WI)			
3. All of section 21.26 will be reviewed and amended as necessary in the next code change cycle.	3. Suggests changes to the masonry wall requirements in s. 21.26. Rope should be required in weep holes to keep them from filling with wet mortar. Weep Holes should be required at least every 18 inches to allow for proper drainage.					
2. Agree. The provision will be amended.	2. Opposes wording in s. 21.17 on drain tile. A municipality must be allowed to require drain tile due to known natural conditions such as seasonal variations in rainfall and groundwater levels.			······		
1. The council discussed this and decided against adding more language to this code section.	1. Suggests stronger and clearer requirements for attic access openings in garages so that the access cover is hinged or otherwise permanently attached.	Al Schultz Town of Bellevue Zoning Green Bay, WI	17	······································		
6. The department will wait to see how the change to the commercial building code affects building practices and bring the topic back to the UDC Council for discussion	6. Suggest that we adopt stronger requirements, similar to the commercial code for penetrations of fire separation walls.	Joe Jameson (cont)	cont			
Agency Response	Comments/Recommendations	Presenter, Group Represented, City, State		In For Opp. Info.	Sup. Com	
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Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A	N/A
Written Comments Received as of 1/7/98	Received as of 1/7/0

			Oshkosh, WI	20 Garry Decker Garry H. Decker & Co.			Janesville, WI	19 Douglas Marklein Marklein Builders, Inc. & South Central WBA		Commenting Presenter,
	<u>.</u>	3. (4. 1 sys:	3 edg		nc. &	sented,	τ,
	4. Opposes the proposed prohibition on partial drain tile systems.	3. Opposes the proposal for scaling drywall edges in garages due to cold weather application problems.	2. Opposes the safety glazing changes.	1. Opposes proposed bedroom definition.	4. Opposes requiring a complete drain tile system where a partial system is adequate.	3. Opposes proposed requirements for taping or sealing drywall edges in garages due to cold weather application problems.	separation walls. Labeled doors are available but the metal frames are difficult to obtain and homeowners would object to the appearance and thermal conductance of metal frames.	Opposes the requirement for labeled doors and for the labeled doo	Comments/Recommendations	
4. Agree. The provision will be amended to clarify that partial systems are allowed.	inis should eliminate problems with cold weather application.	3. The provision will be clarified so that caulking and tightly fitted joints with backing is acceptable.	2. Agree in part. The department will delete the proposal for safety glazing that is outside the tub or shower enclosure in a bathroom.	1. Agree. The department will delete this.	4. Agree. The provision will be amended to clarify that partial systems are allowed.	3. Agree. This provision will be amended to include tightly fitted joints with limitations on gap size and added joint backing requirements.	 the department will investigate this topic and amend as necessary. 	1. Agree. The provision will be deleted.	Agency Response	

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

			22 Monte Ewing Oregon, WI					Wiliam Carrity Wisconsin Builders Assoc. Madison, WI	<u> </u>	nmenting
4. Section 21.08 (5) (c) should require hardware to keep the rated door closed.	3. Section 21.08 (5) should be clarified so the separation is maintained between garages and porch overhangs.	2. Suggests moving s. 21.05 (3) and (4) to s. 22.08. Reference to vapor retarders should be moved to ch. 22, also.	1. Supports the proposed uniform dimensions for all types of egress windows.	5. Opposes the proposed prohibition on partial drain tile systems.	4. Opposes the proposal that drywall edges be taped and sealed in the separation wall between garage and dwelling.	3. Opposes the proposed safety glazing requirements in bathrooms outside of the tub or shower enclosure.	2. Opposes the proposed bedroom definition.	1. Objects to the rule changes due to lack of economic analysis.	Comments/Recommendations	
4. Disagree. There is no known problem with people not closing the door between the garage and dwelling.	3. Agree.	2. Vapor retarder language has been clarified in ch. 22.08. Due to the familiarity with the vapor retarder requirements at its current location, it has been decided at this time that it will remain in s. 21.05(3) and (4).	1. Agree,	5. Agree. Provision will be amended to clarify that a partial system is allowed.	4. Agree. This provision will be amended to include tightly fitted joints with limitations on gap	3. Agree. The department will delete the proposal for safety glazing that is outside the tub or shower enclosure in a bathroom.	2. Agree. This provision will be deleted.	1. See the hearing draft plain language analysis of Ch. 22 Subch. VI for a description of the economic analysis used by the Council to assist in choosing insulation levels. The department will consider a more standard method for the rest of the code.	Agency Response	

Rule Number: Chapters ILHR 20-25
Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

movee areas of access the NI area, (10. So be in c	thickn	8. See plumb	7. Se perfor on ho	nonco	22 Monte Ewing (cont.) 5. Se separa	For Exh.	Commenting
11. There are several definitions in this section that should be moved to s. 20.07 because they apply or should apply to other areas of the code. These include: (1) accessible, (27) readily accessible [This should be changed to "accessible, readily" as in the NEC.], (4) Basement wall, (7) Crawl space wall, (14) Glazing area, (30) Roof assembly, and (31) Sash Crack.	 Section 22.04 on equipment maintenance information should be in chapter 23, not 22. 	y. In s. 22.03 (1), add the term "calculated" before settled thickness and add "readily accessible" to the term conspicuous.	8. Section 21.17 (4) Note should clarify that only a licensed plumber may install the sump and discharge piping.	7. Section 21.17 should regulate the use of perforated and non-perforated plastic drain tile. There should also be a clarification on how drain tile is affected by alterations to dwellings.	6. Section 21.08 (7) (b) should define "firmly packed" and noncombustible.	5. Section 21.08 (7) (a) & (b) should define what the "required separation" refers to.	Comments/Recommendations	
11. These definitions come from the Model Energy Code and should not be applied to other chapters unless the potential impacts are evaluated.	10. Agree.	9. Agree.	8. Disagree. The credential code, Comm 5, already sets forth licensing requirements for installers of plumbing systems.	7. Agree in part. Materials used for subsurface drainage are already regulated by the plumbing code. Therefore, additional regulatory requirements are not needed in s. 21.17. Language has been added to s. 21.17 to clarify drain tile installation requirements for altered buildings.	6. Agree. The department will wait to see how the change to the commercial building code affects building practices and bring the topic back to the UDC Council for discussion.	5. Agree. Reference to applicable sections of 21.08(5) will be added.	Agency Response	

Rule Number: Chapters ILHR 20-25

Relating To: Uniform Dwelling Code

DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

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							Monte Ewing (cont.)	Group Represented, City, State	Presenter,
19. There is no provision recognizing air-to-air heat exchangers for achieving balanced ventilation.	18. If clothes dryers are exempt from complying with s. 23.02 (3) (a) 4., it should be clearly stated.	17. In s. 23.02 (3) (a) 4., If clothes dryers are exempted, the code should clearly state this.18. In s. 23.02 (3) (a) 5., "kitchen range hoods" should be changed to "kitchen exhaust systems".	16. In ss. 22.22 (2) and (3), wording should be added to clarify that the vapor retarder has a rating of 1.0 perm or less.	ahead of walls at the end of the sentences.	14. In s. 22.08 (3), it is not a good idea to list attic, crawl spaces, and basements as areas that dryer exhaust cannot terminate into. What about soffits, for example?	13. In s. 22.08 (1) (b), clarify that the one inch space is between the insulation and the roof sheathing.	12. In s. 22.06, the definition of "Type IC rated" should follow the UL definition. In s. 22.32, the requirements for recessed lighting should follow UL requirements.	Comments/Recommendations	
 No particular system is identified nor precluded under the performance requirement. 	18. Agree.	17. Agree.	16. Agree that clarification is needed.	15. Disagree. The thermal envelope may not be at the exterior wall	14. The first sentence requires dryers to be vented to the outside of the dwelling so venting to a soffit would not be allowed. The second sentence lists spaces where confusion is common. These spaces may be outside the thermal envelope. Agree that a requirement to vent outside the building or structure would be more clear	13. Agree.	12. Agree.	Agency Response	

Rule Number: Chapters ILHR 20-25
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DIVISION OF SAFETY AND BUILDINGS

Hearing Location:
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CertainTeed Corp. Mukwonago, WI Ken Baumgart Brown County HBA Green Bay, WI	Commenting In J Sup. Opp. II	for nfo.	Exh.	Presenter, Group Represented, City, State	Comments/Recommendations
Ken Baumgart Brown County HBA Green Bay, WI			23	Craig Nickelbein CertainTeed Corp. Mukwonago, WI	Supports the proposed requirements for identifying insulation type, thickness, and R-values in s. 22.03.
			24	Ken Baumgart Brown County HBA	1. Opposes the proposed bedroom definition.
3. Opposes the proposed safety glazing requirements in s. 21 (5) (c) for application within 3 feet of the outside of a tub or shower. 4. Opposes the proposed requirement to tape and seal drywa joints in garages.				Green Bay, WI	2. The proposed requirement for mechanical fastening other toe-nailing is unnecessary in many areas of the state and add
proposed requirement to tape					3. Opposes the proposed safety glazing requirements in s. 21.05 (5) (c) for application within 3 feet of the outside of a tub or
y obosed redunement to tabe					shower.
					roposed requirement to tape

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DIVISION OF SAFETY AND BUILDINGS

Hearing	
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Sterling Bui Wausau, WI	Mast Const. C Hayward, WI	Charles Johan Hayward, WI	Steve Hunte Barnes, WI	Hayward Glas Hayward, WI	52 Hayward, WI		Woodcraft Qu Necedah, WI	Terrace Friends	La Crosse Are Onalaska, WI	25- Bolen Kealt 29 Antigo, WI	No.	In For Exh. Gre	Commenting
Sterling Building Systems Wausau, WI	Mast Const. Co., Inc. Hayward, WI	Charles Johansen Hayward, WI	Steve Hunter Construction Barnes, WI	Hayward Glass & Door Inc Hayward, WI	Ken LaCoy Constr., Inc. Hayward, WI	Adlee Construction Wisconsin Rapids, WI	Woodcraft Quality Homes Necedah, WI	Terrace Homes Retail LLC Friendship, WI	La Crosse Area Bldrs. Ass. Onalaska, WI	Bolen Kealty, Inc Antigo, WI	City, State	Group Represented,	Presenter,
				2. Opposes the proposed prohibition on partial drain tile systems.	1. Opposes proposed bedroom definition.		4. Opposes the prohibition on partial drain tile systems.	3. Opposes the proposed requirement to tape and seal drywall joints in garages.	 Opposes the proposed safety glazing requirements in s. 21.05 (5) (c) for application within 3 feet of the outside of a tub or shower. 	1. Opposes the proposed bedroom definition.		Comments/Recommendations	
				2. Agree. The provision will be amended to clarify that partial systems are allowed.	1. Agree. This provision will be deleted.		4. Agree. The language will be clarified to address this.	include tightly fitted joints with limitations on gap size and added joint backing requirements.	2. Agree. This provision will be deleted.	1. Agree. This provision will be deleted.	Agency Kesponse	Agancy Dassons	

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Relating To: Uniform Dwelling Code	Rule Number: Chapters ILHR 20-25
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DIVISION OF SAFETY AND BUILDINGS

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Northland Rec. Homes Hayward, WI	Nelson Lumber Hayward, WI	Sjostrom Construction, Inc. Hayward, Inc.	Roger Hoff Construction Hayward, WI	Nordic WW Ojibwa, WI	Jeff Ince Masonry Hayward, WI	J & S Painting Hayward, WI	Pat Foat Construction Barnes, WI	Grand Pines Const. Hayward, WI	Jorgensen Const. Hayward, WI	Jon Jaderborg Spooner, WI	Group Represented, City, State	Presenter,
											Comments/Recommendations	
											Agency Response	

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DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

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Chapel Hill Homes, Inc. Elm Grove, WI	Woodhaven Homes, Inc. Pewaukee, WI	Northern Crossarm Co Inc. Chippewa Falls, WI	Kettle Creek Homes Waukesha, WI	J. G. Samuels, Inc. North Prairie, WI	Helmut's Home Services Milwaukee, WI	Freeman Group, Inc. Cedarburg, WI	Lawrence W. Babb, Inc. Okauchee, WI	Trustway Homes Pewaukee, WI	Kaerek Builders, Inc. Milwaukee, WI	Handcrafted Homes, LLC New Berlin, WI	Group Represented, City, State	Presenter,
									proposed 10-ioot provision in s. 22.28.	8. Opposes any insulation below ground level, because soil is a greater insulator than insulation. Opposes particularly the	Comments/Recommendations	
								mey want.	grade and below grade requirements differ. Agree that the 10-foot requirement should be removed. With trade offs, owners can insulate to any depth	8. The analysis used to help pick insulation levels did consider the effect of soil. Note that above	Agency Response	

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DIVISION OF SAFETY AND BUILDINGS

Hearing Location: N/A

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		G	75		1 1
The Foster Group, LTD. Wauwatosa, WI	Gas Light Homes, Inc. New Berlin, WI	Weske Building Corp. Menomonee Falls, WI	Elm Grove, WI		
				Comments/Recommendations	
				Agency Response	

WISCONSIN LEGISLATIVE COUNCIL STAFF



RULES CLEARINGHOUSE

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CLEARINGHOUSE REPORT TO AGENCY

[THIS REPORT HAS BEEN PREPARED PURSUANT TO S. 227.15, STATS. THIS IS A REPORT ON A RULE AS ORIGINALLY PROPOSED BY THE AGENCY; THE REPORT MAY NOT REFLECT THE FINAL CONTENT OF THE RULE IN FINAL DRAFT FORM AS IT WILL BE SUBMITTED TO THE LEGISLATURE. THIS REPORT CONSTITUTES A REVIEW OF, BUT NOT APPROVAL OR DISAPPROVAL OF, THE SUBSTANTIVE CONTENT AND TECHNICAL ACCURACY OF THE RULE.]

CLEARINGHOUSE RULE 97–138

AN ORDER to repeal ILHR 20.07 (22), (27m), (39), (73r) and (74), 21.03 (6m) (b) 3., 21.08 (6) (e), 21.17 (3) and (4), 21.29 (12) and 23.15 (2) (d); to renumber ILHR 21.17 (2) to (5), 21.29 (13) and (14) and 23.15 (2) (e) and (f); to amend ILHR 21.02 (1) (c) and (3) (d), 21.03 (6m) (b) 1. and 2., 21.042 (5) (b) and (c), 21.045 (3) (b), 21.05 (3), 21.08 (6) (c), (d) and (e) 1. b., 21.17 (3) (d), 21.18 (2), 21.205, 21.25 Table 21.25—A and 21.27 (3) (a) 2. c.; to repeal and recreate chapter ILHR 22 and ILHR 20.24, 21.05 (4) and (5), 21.08 (5) and (6) (b), 21.17 (1) and (3) (c), 21.20, 21.22 (9), 21.27 (3) (a) 1., 23.02 (1) and (3) (a) and 23.08 (2) (b) 15. and (5); and to create ILHR 20.07 (8f), 20.09 (5) (b) 1. c. and d., 21.08 (7), 21.17 (2) and (4) and 23.14 (2) (a) Note, relating to the uniform dwelling code.

Submitted by **DEPARTMENT OF COMMERCE**

11–11–97 RECEIVED BY LEGISLATIVE COUNCIL.

12–10–97 REPORT SENT TO AGENCY.

RNS:MCP:kjf;lah

LEGISLATIVE COUNCIL RULES CLEARINGHOUSE REPORT

This rule has been reviewed by the Rules Clearinghouse. Based on that review, comments are reported as noted below: STATUTORY AUTHORITY [s. 227.15 (2) (a)] NO V YES Comment Attached FORM, STYLE AND PLACEMENT IN ADMINISTRATIVE CODE [s. 227.15 (2) (c)] NO YES 🖊 Comment Attached CONFLICT WITH OR DUPLICATION OF EXISTING RULES [s. 227.15 (2) (d)] NO M YES Comment Attached 4. ADEQUACY OF REFERENCES TO RELATED STATUTES, RULES AND FORMS [s. 227.15 (2) (e)] NO / YES Comment Attached 5. CLARITY, GRAMMAR, PUNCTUATION AND USE OF PLAIN LANGUAGE [s. 227.15 (2) (f)] YES Comment Attached POTENTIAL CONFLICTS WITH, AND COMPARABILITY TO, RELATED FEDERAL REGULATIONS [s. 227.15 (2) (g)] YES NO I Comment Attached 7. COMPLIANCE WITH PERMIT ACTION DEADLINE REQUIREMENTS [s. 227.15 (2) (h)] YES Comment Attached

WISCONSIN LEGISLATIVE COUNCIL STAFF

RULES CLEARINGHOUSE

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CLEARINGHOUSE RULE 97–138

Comments

[NOTE: All citations to "Manual" in the comments below are to the Administrative Rules Procedures Manual, prepared by the Revisor of Statutes Bureau and the Legislative Council Staff, dated October 1994.]

2. Form, Style and Placement in Administrative Code

- a. The repeal and recreation of s. ILHR 20.24 in Section 8 should not include the subchapter title.
- b. Section 9 should be divided into two Sections—one that renumbers and amends s. ILHR 21.02 (1) (c) and one that creates s. ILHR 21.02 (1) (c) 2. and 3.
 - c. The title in s. ILHR 21.05 (4) (b) should be underlined.
 - d. The reference in s. ILHR 21.08 (5) (b) to "subpars." should be changed to "par."
- e. The title to s. ILHR 21.17 should not be shown when s. ILHR 21.17 (1) is repealed and recreated.
 - f. The hyphen in s. ILHR 21.17 (4) (c) should be replaced by "to."
- g. The title of ch. ILHR 22 should be shown when the entire chapter is repealed and recreated.
 - h. In ch. ILHR 22, it is suggested that the order of subchs. II and III be reversed.
- i. The last sentence of s. ILHR 22.04 should be written in the active voice. It should begin "_____ shall provide" The entire rule should be reviewed for instances of this error; see, for example, ss. ILHR 22.16 (intro.) and 23.02 (1) (c).

j. The cross-reference in s. ILHR 22.30 (2) should be to "sub. (3)."

5. Clarity, Grammar, Punctuation and Use of Plain Language

- a. The term "bedroom" is defined in s. ILHR 20.07 (8f) to mean a room with a closable door that also contains a closet. This definition could encompass other kinds of rooms not normally thought of as bedrooms, such as a bathroom that has a closet. It also would exclude a room that is used as a bedroom but that does not contain a closet.
- b. The phrase "irrespective of height or width" that is added to s. ILHR 21.03 (6m) (b) 1. is unclear. As drafted, this phrase means "without regard to" the height or width. The apparent intent of this provision would be better expressed by the phrase "in either height or width." In the alternative, the underscored language could be deleted.
- c. Sections ILHR 22.01 and 22.02 (1) and (2) should commence with "This chapter applies...", "This chapter is not intended..." and "This chapter allows...", respectively.
- d. Section ILHR 22.03 (1) specifies two alternatives for identifying insulation. It is difficult to understand the differences between the two alternatives and difficult to understand how the requirement of posting the certification relates to these alternatives. This subsection could be clarified easily by separating the alternatives into two paragraphs.
- e. Section ILHR 22.03 (2) (a) requires installation of insulation in a manner to permit inspection. Should this be clarified to state that the inspection would occur before walls and ceilings are finished?
- f. Section ILHR 22.04 refers interchangeably to equipment and product. Can consistent terminology be used in this section?
- g. The first sentence in s. ILHR 22.05 (1) is difficult to understand. One way to clarify this sentence would be to separate it into two sentences, one for labeling and certification by the manufacturer and one for independent laboratory certification. Also, the acronym "NFRC" should be included in this subsection. Finally, sub. (1) appears to *require* manufacturer certification, but sub. (2) establishes requirements when the manufacturer has not determined product U-value. Are these subsections inconsistent?
 - h. The comma after "such as" should be deleted in s. ILHR 22.06 (3).
- i. The definition of "energy" in s. ILHR 22.06 (11) could be clarified by adding "form" after "one" and by placing the acronyms in parentheses.
- j. The definition of "glazing area" in s. ILHR 22.06 (14) refers to glazing that encloses conditioned spaces. Would it be preferable to refer to glazed surfaces that are part of the dwelling envelope, which is a defined term in the rule?
- k. The definition of "gross exterior wall area" in s. ILHR 22.06 (15) could be substantially clarified. The meaning of "normal projection" is not clear and may be technical

- jargon. The phrase "bounding interior space which is conditioned by an energy-using system" is unnecessary because this concept is included in the defined term "dwelling envelope." It is not clear which surfaces and spaces are referred to by the phrases "such surfaces" and "such spaces." Opaque areas are deemed to include windows and doors in this definition, but are excluded from the definition of "opaque areas" in s. ILHR 22.06 (26).
 - 1. In s. ILHR 22.06 (28), "contributed" should replace "contribute."
- m. The definition of "sash crack" in s. ILHR 22.06 (31) requires a measurement of the perimeter of all window sashes. It is not clear what is meant by "overall dimensions" and how a perimeter could consist of anything other than the overall dimension. Also, does the phrase "expressed in feet" mean "rounded off to the nearest foot" or does it mean something else?
- n. The term "daylighting" in s. ILHR 22.06 (37) is jargon. It would appear to be more appropriate to use "sunlight."
- o. The definitions of "thermal conductance" and "thermal transmittance" in s. ILHR 22.06 (39) and (42) are nearly the same. There does not appear to be any reason to use two terms to mean the same thing. If these terms are in fact different, the definitions should indicate that difference.
- p. It is not clear what portion of the roof would be the "low sides" in s. ILHR 22.08 (1) (a) (intro.) Is the "side" of the roof the gable? Also, what is meant by the "upper one-half of the roof or attic area"?
- q. The phrase "of vapor retarders" should apparently be added after "designs" in s. ILHR 22.22 (1) (a).
- r. The phrase "the given" in s. ILHR 22.28 (2) should be replaced by "a" and the hyphen in the phrase "10-feet" should be eliminated. This latter problem should be corrected in ss. ILHR 22.26 (2) and 22.27 (2) also.
- s. The word "plus," which is used several times in ss. ILHR 22.33 and 22.34, should be replaced by "and."
- t. It is not clear what is meant by "analysis of the annual energy usage or annual energy analysis" in s. ILHR 22.33. These two terms appear to be virtually the same.
- u. Section ILHR 22.35 (1) should commence with: "The input values in this section shall be used"
 - v. In table 22.35-2, an asterisk should be placed after "Duct Location."
- w. Section ILHR 22.36 (1) allows the comparison of designs on an annual basis or "other time unit." However, s. ILHR 22.33 appears to allow only annual calculations.
- x. Section ILHR 22.41 (2) (intro.) should commence as follows: "To qualify for the exclusion in sub. (1), the renewable energy"

- y. The word "shall" should be deleted in s. ILHR 22.41 (2) (a).
- z. In s. ILHR 22.42 (1), "an" should be inserted before "exception."
- aa. The comma in the second sentence of s. ILHR 22.42 (2) should be deleted and "must" should be replaced by "shall."

RESPONSE TO LEGISLATIVE COUNCIL CLEARINGHOUSE REPORT

Department of Commerce

CLEARINGHOUSE RULE NO.: 97-138
RULE NO.: Chapters ILHR 20-25
RELATING TO: Uniform Dwelling Code
Agency contact person for substantive questions.
Name: LeRoy Stublaski
Title: Engineering Consultant – Uniform Dwelling
Telephone No. 267-5113
Legislative Council report recommendations accepted in whole.
Yes X No
1. Review of statutory authority (s.227.15(2)(a))
a. X Accepted
b. Accepted in part
c. Rejected
d. Comments attached
2. Review of rules for form, style and placement in administrative code (s.227.15(2)(c))
a. Accepted
b. X Accepted in part
c. Rejected
d. X Comments attached

(Continued on reverse side)

3.	Review rules for conflict with or duplication of existing rules (s.227.15(2)(d))
	a. X Accepted
	b. Accepted in part
	c. Rejected
	d. Comments attached
4 .	Review rules for adequate references to related statutes, rules and forms (s.227.15(2)(e))
	a. X Accepted
	b. Accepted in part
	c. Rejected
	d. Comments attached
5.	Review language of rules for clarity, grammar, punctuation and plainness (s.227.15(2)(f))
	a. Accepted
	b. X Accepted in part
	c. Rejected
	d. X Comments attached
6.	Review rules for potential conflicts with, and comparability to, related federal regulations (s.227.15(2)(g))
	a. X Accepted
	b. Accepted in part
	c. Rejected
	d. Comments attached
7.	Review rules for permit action deadline (s.227.15(2)(h))
	a. X Accepted
	b. Accepted in part
	c. Rejected
	d. Comments attached

RESPONSE TO LEGISLATIVE COUNCIL CLEARINGHOUSE REPORT

- 2. Comments on Form, Style and Placement in Administrative Rule
- h. Consistency with model code sequence is desired.
- i. Active voice is not possible and not required. It would be inconsistent with all of our codes.

All other comments were accepted.

- 5. Comments on Clarity, Grammar, Punctuation and Plain Use of Language
- e. Section ILHR 20.10 already specifies when the insulation inspection takes place.
- j. Conditioned space is also a defined term.
- k. Clarification will be made where possible. The dwelling envelope may or may not coincide with the exterior walls.
- 1. An alternate correction was made by inserting the word "would" before "not contribute".
- n. The term is used in other industry and national standards with which consistency is important.
- o. One is a material property and one is an assembly property. Consistency with other industry and national standards is important.
- p. Language is from the current code. Users do not report any problems.
- q. Any design covered by the code is referred to.
- w. Section ILHR 22.36 (1) refers to the <u>expression</u> of the comparison. The annual energy use may be expressed as the use in a 52-week period or a 365-day period.

All other comments were accepted.